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Atty. Dkt. No.: 077319-0363

## WHAT IS CLAIMED IS:

- 1. A method of enhancing the response of a tumor to irradiation, comprising:
- a) administering to a patient in need of such therapy a radiosensitizing amount of a pharmaceutical composition comprising paclitaxel, docetaxel, eptopside, teniposide, camptothecin or epothilone conjugated to a water soluble polyamino acid polymer and a pharmaceutically acceptable carrier;
- b) irradiating said tumor; wherein said conjugated paclitaxel or docetaxel have increased water solubility, efficacy and accumulation within a tumor compared with the corresponding unconjugated drugs.
- 2. The method of claim 1, wherein said polymer is selected form polyglutamic acids, polyaspartic acids or polylysines.
- 3. The method of claim 2, wherein said polymer has a molecular weight of about 5000 to about 100000 daltons.
- 4. The method of claim 2, wherein said polymer has a molecular weight of about 20000 to about 80000 daltons.
- 5. The method of claim 2, wherein said polymer has a molecular weight of about 25000 to about 50000 daltons.

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6. The method of claim 1, wherein said polymer is a polyglutamic acid.

- 7. The method of claim 6, wherein said conjugate comprises from about 2% to about 35% by weight of paclitaxel or docetaxel.
- 8. The method of claim 1, wherein step (b) is carried out by administering gamma irradiation to said tumor.
- 9. The method of claim 9, wherein said composition is administered prior to irradiation.
- 10. The method of claim 9, wherein said composition is administered following irradiation.
- 11. The method of claim 9, wherein said irradiation dose is about10 Gray per week, and said composition is administered within 1-2 days of irradiation.
- 12. The method of claim 9, wherein said cancer is breast cancer, ovarian cancer, malignant melanoma, lung cancer, gastric cancer, prostate cancer, colon cancer, head and neck cancer; leukemia or Kaposi's sarcoma.
  - 13. A method of treating cancer comprising:

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a) administering to a patient in need of such therapy a radiosensitizing amount of a pharmaceutical composition comprising paclitaxel, docetaxel, eptopside, teniposide, camptothecin or epothilone conjugated to a polyglutamic acid polymer and a pharmaceutically acceptable carrier; and

- b) irradiating said tumor.
- 14. The method of claim 13, wherein the amount of said composition is from about 0.5 times to about 2 times the maximum tolerated doses of paclitaxel in equivalent paclitaxel doses.